General hinge information

ANSI Certified
All Ives Aluminum geared hinges are certified to ANSI 156.26, Grade 1
XY Models . . . . . Grade 1 150lb and 300lb door test
HD Models . . . . . Grade 1 150lb door test

UL Listed
All Ives Aluminum geared hinges are tested and approved UL 10C (90 minutes).

Material
6063-T6 Aluminum

Hinge duty
All Ives Aluminum geared hinges are heavy duty(XY and HD models)

XY Model - Slot Adjustability



XY Model - Bearings



HD Model



XY Models:
- Rounded gear design for extended life and smoother operation.
- Patented, center loaded, interlocking bearing design which helps handle the opening and closing of the door better over time. All sizes have 37 Bearings.
- XY Mounting Slot Adjustability on all full and half surface models to help with installation.
- Frame guidance lip is extended further for retrofit applications to cover existing heavy weight architectural hinge preps.
- Improved aesthetics with a curved, articulating cover design which eliminates pinch points

HD Models
Features transmission gear design with bearings that are evenly spaced every 3" on center - Amount of bearings varies by size
- 83" . . . . . 32 Bearings
- 85" . . . . . 32 Bearings
- 95" . . . . . 36 Bearings
- 120" . . . . . 47 Bearings

Standard lengths
83", 85", 95", 119"(XY Models), 120"(HD Models) Custom lengths available up to 119", consult factory. Handing required for 224HD

Finishes

BHMA	US	Description	Base Material
628	US28	Clear aluminum anodized	Aluminum
710	313AN	Dark bronze anodized	Aluminum

Custom finishes available, consult factory.

Field modifications
Ives Aluminum geared continuous hinges can be cut to length from both ends during installation.

XY Models
The unique mounting pattern of the XY hinge allows it to be cut down to 69" while still having double row fastners regardless of the original length of the hinge. Requires the hinge to be cut from both ends. Example: A 119" hinge can have 25" removed from each end to make it a 69" long hinge.

HD Models
The unique mounting pattern allows to cut up to 6" from bottom while still having double row fasteners. If cut more than 13.5", other modifications may be necessary.

Door weight
For doors up to 200 lbs, no door reinforcement is required. For doors between 200 and 450 lbs a 16 gauge channel in the frame is required. For doors up to 600 lb, rivet nuts are required in the frame in addition to the frame reinforcement. Max door width of 4'0".

Hospital tips
Hospital tip (HT) for XY models
The XY models features a new ligature resistant and tamper resistant Hospital Tip Cap. The design provides a single uniform 45º angle surface with no exposed edges or openings.

